

# Keystone Citizen Advisory Group

## Keystone Harbor Environmental Analysis

### AREAS OF ANALYSIS

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- Parks and Recreation
- Historic and Cultural Resources
- Aquatic Resources
- Surface and Ground Water Resources

### KEY FINDINGS

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#### Parks and Recreation

- Impacts of Steel Electric, Keystone Special, and New Propulsion vessel scenarios are identical and generally of least significance
- Dredging effects to campground would be greatest with 130-2, 130-4, 100-2, and 100-4 vessel scenarios.
- Greatest overall effect to campground (displacement of campsites) would be with West State Park Slip and Terminal Harbor Option 5 (and slightly greater impact with 130 and 100 vessels)
- Greatest impact to diving area would be with Harbor Mouth Slip East State Park Terminal Option 3 (acquisition and parking issues)
- Greatest opportunity to consolidate park activities would come with Harbor Mouth Slip East State Park Terminal Option 3 and In Harbor Slip State Park Terminal Option 4

#### Cultural and Historic Resources

- Scenarios that require dredging/earth movement in presently undisturbed areas have the greatest potential to encounter intact sediments containing pre-historic archaeological resources – Existing Slip with Jetty Extension Option 2 (130 and 100 vessels) and In Harbor Slip State Park Terminal Option 4 and Existing Slip with Line Dolphins Option 6
- Scenarios that affect the west side of the harbor are more likely to encounter historic resources -- Existing Slip with Jetty Extension Option 2 (130 and 100 vessels), In Harbor Slip State Park Terminal Option 4 and West State Park Slip and Terminal Harbor Option 5

## **KEY FINDINGS *continued***

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### **Aquatic Resources**

- Greatest pile driving effects would be experienced with Harbor Mouth Slip East State Park Terminal Option 3; least impacts with Existing Slip with Jetty Extension Option 2 and In Harbor Slip State Park Terminal Option 4 and Scenarios NP-3 & 5 (due to no current deflector)
- Major dredging impacts would occur with Existing Slip with Jetty Extension Option 2, In Harbor Slip State Park Terminal Option 4, and Existing Slip with Line Dolphins Option 6
- Potential effects to Threatened & Endangered Species considered “Very High” with Existing Slip with Jetty Extension Option 2 (130 and 100 vessels) and In Harbor Slip State Park Terminal Option 4 and Existing Slip with Line Dolphins Option 6
- In Harbor Slip State Park Terminal Option 4 and Existing Slip with Line Dolphins Option 6 considered difficult to permit

### **Surface and Ground Water Resources**

- All build scenarios would provide storm water treatment, an improvement over existing conditions
- Greatest amount of impervious surface area (vehicle holding lanes and access road) with Harbor Mouth Slip East State Park Terminal Option 3, In Harbor Slip State Park Terminal Option 4, and West State Park Slip and Terminal Harbor Option 5; new impervious area comprises about 2/3 of 4 and almost all of West State Park Slip and Terminal Harbor Option 5
- New impervious surface areas would reduce recharge to local groundwater; small declines in water table and narrowing of freshwater lens beneath surface areas expected with In Harbor Slip State Park Terminal Option 4 and almost all of West State Park Slip and Terminal Harbor Option 5
- Because of dredging, greatest short-term marine water quality impacts would result from Existing Slip with Jetty Extension Option 2 (130 and 100 vessels) and In Harbor Slip State Park Terminal Option 4 (all vessels)